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WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LLP			MARTINEZ, DAVID E	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

M7

Office Action Summary	Application No.	Applicant(s)
	10/723,261	MYLLY ET AL.
	Examiner	Art Unit
	David E. Martinez	2181

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 04 June 2007.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-25 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-25 is/are rejected.
 7) Claim(s) 6 is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 26 November 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 6/4/07.
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/4/07 has been entered.

Claim Objections

Claim 1 is objected to because of the following informalities: In lines 7-8, the term "detecting one or more indirect indicators formed in the peripheral device, which one or more indirect indicators is itself or are themselves" appears to be missing some kind transitional phrase or the use of correct grammar between "peripheral device" and "which one or more". Claim 10 (lines 6-7) and claim 11 (lines 5-7), suffer from the same deficiencies as claim 1 above. Appropriate correction is required.

Claim 1 is also objected to because of the following informalities: In line 9, the term "which one or ones of said bus width or widths available for use" appears to be missing an "are" between the words "widths" and "available". Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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With regards to claim 1, in lines 5-6, the term "detecting in an electronic device a bus width or widths available for use in an operating mode of the peripheral device" renders the claim indefinite since it is now clear if the detection of the bus width is being done in the electronic device itself or if the detection of the bus width is directed to detection in the peripheral device instead. Also, in lines 11-12 the term "said electronic device then selecting a bus width for using said peripheral device in said operating mode according to the selected bus width" renders the claim indefinite. It is not clear if the first instance of "a bus width" in the term is referring to a new instance of a bus width altogether in the claim or if it's referring to the term "a bus width" recited in line 5. Also, the term calls for either selecting a bus width according to the selected bus width (which doesn't make sense), or for using said peripheral according to the selected bus width, but it's not clear.

Claim 1 also recites the limitation "the peripheral device" in lines 6, 7 and 9-10. There is insufficient antecedent basis for this limitation in the claim. Claim 1 also recites the limitation "said peripheral device" in line 11. There is insufficient antecedent basis for this limitation in the claim. Please note that the use of "the peripheral device" or "said peripheral device" as lacking antecedent basis also propagates throughout all dependent claims 2-9. Appropriate correction is required.

Claim 9 recites the limitation "said reference data" in line 8. There is insufficient antecedent basis for this limitation in the claim.

With regards to claims 2-9, due to their direct or indirect dependency from claim 1, they suffer from the same deficiencies and thus are rejected under the same rationale.

With regards to claim 10, in line 4 it calls for "a defined set of bus widths" and then in line 8 it calls for "one or ones of said set of bus widths" which renders the claim indefinite since the

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second term appears to possibly refer back to a plurality of sets. This is unclear since the first term only recites a singular set and not a plurality of sets.

With regards to claim 11, in line 4 it calls for “a defined set of bus widths” and then in lines 7-8 it calls for “one or ones of said set of bus widths” which renders the claim indefinite since the second term appears to possibly refer back to a plurality of sets. This is unclear since the first term only recites a singular set and not a plurality of sets.

Claim 11 also recites the limitation “the detector” in lines 4-5. There is insufficient antecedent basis for this limitation in the claim.

Claim 11 also recites the limitation “the value” in line 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 15 recites the limitation “said detector” in line 1. There is insufficient antecedent basis for this limitation in the claim.

Also in claim 15, the term “a value” in line 2 renders the claim indefinite since it’s not clear if it’s a new instance of a value or if it’s supposed to be referring back to the term “the value” found in claim 11 line 5.

With regards to claims 12-15, due to their direct or indirect dependency from claim 11, they suffer from the same deficiencies and thus are rejected under the same rationale.

With regards to claim 16, in line 4 it calls for “a defined set of bus widths” and then in lines 6-7 it calls for “one or ones of said set of bus widths” which renders the claim indefinite since the second term appears to possibly refer back to a plurality of sets. This is unclear since the first term only recites a singular set and not a plurality of sets.

Claim 16 also recites the limitation “the bus width” in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 17 recites the limitation “the maximum clock frequency” in line 2. There is insufficient antecedent basis for this limitation in the claim.

With regards to claims 17-20 and 25, due to their direct or indirect dependency from claim 16, they suffer from the same deficiencies and thus are rejected under the same rationale.

With regards to claim 21, in line 4 it calls for “a defined set of bus widths” and then in line 7 it calls for “one or ones of said set of bus widths” which renders the claim indefinite since the second term appears to possibly refer back to a plurality of sets. This is unclear since the first term only recites a singular set and not a plurality of sets.

With regards to claim 22, in line 4 it calls for “a defined set of bus widths” and then in line 8 it calls for “one or ones of said set of bus widths” which renders the claim indefinite since the second term appears to possibly refer back to a plurality of sets. This is unclear since the first term only recites a singular set and not a plurality of sets.

With regards to claims 23, due to its dependency from claim 22, it suffers from the same deficiencies and thus is rejected under the same rationale.

With regards to claim 24, in line 4 it calls for “a defined set of bus widths” and then in line 7 it calls for “one or ones of said set of bus widths” which renders the claim indefinite since the second term appears to possibly refer back to a plurality of sets. This is unclear since the first term only recites a singular set and not a plurality of sets.

Due to the vagueness and a lack of clear definiteness in the claims, the claims have been treated on their merits as best understood by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5,7-25 are rejected under 35 U.S.C. 102(b) as being anticipated by SD Memory Card Specification – Part 1 physical layer specification Version 1.01 (hereinafter "SDMCS").

1. With regards to claims 1, SDMCS teaches a method, comprising:
detecting in an electronic device [a host] a bus width or widths available for use [1-bit bus width or 4-bit width] in an operating mode [SPI mode or SD mode] of the peripheral device [SD Memory Card] connected to the electronic device [a host] by detecting one or more indirect indicators formed in the peripheral device [page 7 - section 3.1, page 8 last paragraph], which one or more indirect indicators is itself or are themselves only indirectly indicative of which one or ones of said bus width or widths available [1-bit bus width or 4-bit width] for use in the peripheral device in said operating mode [page 15 section 3.3-subsections 2 and 3 below Table 1], said electronic device then

selecting a bus width [1-bit bus width or 4-bit width] for using said peripheral device in said operating mode [SPI mode or SD mode] according to the selected bus width or widths [page 4, section 1, first paragraph – a user accesses the content of the SD memory card according to an operating bus width].

2. With regards to claim 2, SDMCS teaches the method according to claim 1, wherein reference data is stored in the electronic device about at least one bus width available in the peripheral device and corresponding to one or more values of said one or more indirect indicators [page 7 - section 3.1, page 8 last paragraph, page 15 section 3.3-subsections 2 and 3 below Table 1].

3. With regards to claim 3, SDMCS teaches the method according to claim 2, wherein said one or more indirect indicators is or are indicative of information stored in the peripheral device

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and indicating indirectly, said bus width or widths are available in the peripheral device [page 7 - section 3.1, page 8 last paragraph, page 15 section 3.3-subsections 2 and 3 below Table 1].

4. With regards to claim 4, SDMCS teaches the method according to claim 3, wherein said indirect indicator or indicators is or are indicative of information about a clock frequency available in the peripheral device [page 6, line 9, page 17, table 3, 'Max Clock Rate'].

5. With regards to claim 5, SDMCS teaches the method according to claim 3, wherein said information is information about whether the peripheral device is fast or slow [page 17, section 3.4 – first paragraph].

6. With regards to claim 7, SDMCS teaches the method according to claim 2, comprising performing at least the following:

- transmitting a request from the electronic device to the peripheral device to transmit in return said one or more values of said indirect indicator or indicators to the electronic device [page 7, section 3.1 – first paragraph, page 8 section 3.1.1 lines 10-14],
- transmitting said value or values of said indirect indicator or indicators from the peripheral device to the electronic device [page 18 lines 11-12],
- comparing said one or more values with at least one reference value from said reference data stored in the electronic device [page 18 lines 11-12] for determining the bus width or widths available for use in the peripheral device,
- selecting one bus width available in the peripheral device [page 7, section 3.1 – first paragraph, page 8 section 3.1.1 last paragraph, page 10 last two lines] according to said identification, and
- setting the selected bus width for the peripheral device [page 7, section 3.1 – first paragraph, page 8 section 3.1.1 last paragraph, page 10 last two lines].

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7. With regards to claim 8, SDMCS teaches the method according to claim 1, wherein at least one connection line is formed between the electronic device and the peripheral device, and using at least one said connection line as said indicator [page 7 - section 3.1, page 8 last paragraph, page 15 section 3.3-subsections 2 and 3 below Table 1].

8. With regards to claim 9, SDMCS teaches the method according to claim 8, comprising performing at least the following:

- an initialization in said peripheral device, in which a value of said at least one connection line is set to correspond indirectly to the bus width or widths available in the peripheral device[page 7 - section 3.1, page 8 last paragraph, page 15 section 3.3-subsections 2 and 3 below Table 1, page 18 lines 11-12],
- a detection, in which the electronic device examines a state of said at least one connection line and compares the state of said connection line with at least one reference value from said reference data stored in the electronic device [page 18 lines 11-12],
- a selection for selecting one bus width available in the peripheral device [page 7, section 3.1 – first paragraph, page 8 section 3.1.1 last paragraph, page 10 last two lines], and
- a setting for setting the selected bus width for the peripheral device [page 7, section 3.1 – first paragraph, page 8 section 3.1.1 last paragraph, page 10 last two lines].

9. With regards to claim 10, it is of the same scope as claim 1 and thus rejected under the same rationale.

10. With regards to claim 11, it is of the same scope as claims 1 and 2 above and thus rejected under the same rationale.

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11. With regards to claim 12, it is of the same scope as claim 2 above and thus rejected under the same rationale.

12. With regards to claim 13, it is of the same scope as claim 3 above and thus rejected under the same rationale.

13. With regards to claim 14, it is of the same scope as claim 8 above and thus rejected under the same rationale.

14. With regards to claim 15 it is rejected under the same rationale as claim 2 above.

15. With regards to claim 16, it is of the same scope as claim 1 above and thus rejected under the same rationale.

16. With regards to claim 17, it is of the same scope as claim 4 above and thus rejected under the same rationale.

17. With regards to claim 18 it is of the same scope as claim 5 above and thus rejected under the same rationale.

18. With regards to claim 19 it is of the same scope as claim 6 above and thus rejected under the same rationale.

19. With regards to claim 20, it is of the same scope as claims 1 and 8 above and thus rejected under the same rationale.

20. With regards to claim 21, it is of the same scope as claim 1 and thus rejected under the same rationale.

21. With regards to claim 22, SDMCS teaches an electronic device [a host] comprising a bus width detector for detecting a bus width [1-bit bus width or 4-bit bus width] of a peripheral device [an SD memory card] connected to the electronic device [host in page 8 last paragraph], in which peripheral device at least one bus width is arranged to be used from a defined set of bus widths [SD mode or SPI mode each has a different bus widths once one of the modes is

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selected, 4-bit for SD mode and 1-bit for SPI mode] in a selected mode [SD mode or SPI mode] of the peripheral device [SD memory card], the bus width detector is configured to determine a value of one or more indirect indicators formed in the peripheral device, which one or more indirect indicators is itself or themselves only indirectly indicative of which one or ones of said set of bus widths are available for operating the peripheral device in said selected mode [page 7 - section 3.1, page 8 last paragraph, page 15 section 3.3-subsections 2 and 3 below Table 1].

22. With regards to claim 23, SDMCS teaches the electronic device according to claim 22, wherein reference data is stored in the electronic device about at least one bus width available in the peripheral device and corresponding to said indirect indicator value [page 7 - section 3.1, page 8 last paragraph, page 15 section 3.3-subsections 2 and 3 below Table 1 – SD or SPI mode data references bus width data].

23. With regards to claim 24, it is of the same scope as claim 1 and thus rejected under the same rationale.

24. With regards to claim 25, SDMCS teaches the peripheral device according to claim 16, comprising at least one connection line, and a control unit for setting said connection line in a value which indirectly corresponds to the bus widths available in the peripheral device [page 7 - section 3.1, page 8 last paragraph, page 15 section 3.3-subsections 2 and 3 below Table 1].

Claims 1, 10, 11, 16, 21, 22, and 24, are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent Application Publication No. US 2001/0021956 A1 to Okamoto et al. (hereinafter Okamoto)

25. With regards to claims 1, 10, 11, 16, 21, 22, and 24, Okamoto teaches a method for detecting the bus width and then using a peripheral device [figs 1 element 20, fig 2 element 20a] connected to an electronic device [figs 1 and 2 - element 10], wherein at least one bus width

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from a determined set of bus widths is available in the peripheral device [paragraphs 57], comprising:

detecting the bus width or widths available for use in the peripheral device by detecting one or more indirect indicators formed in the peripheral device, which one or more indirect indicators is itself or are themselves only indirectly indicative of which one or ones of said set of bus widths are available for use in the peripheral device [paragraphs 8-10, 29, 54,55,57,58,59 – a mode selection is made which ultimately selects both a bus width in the peripheral card as well as a signal assignment for peripheral card pins], said electronic device then

using said peripheral device according to the detected bus width or widths [abstract – card operates in an operation mode].

With further regards to claim 11, Okamoto teaches wherein reference data is stored in the electronic device about at least one bus width available in the peripheral device and corresponding to said indirect indicator value [the mode available are the reference data].

Claims 1, 10, 11, 16, 21, 22, and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 6,481,629 to Hirabayashi et al. (hereinafter Hirabayashi).

26. With regards to claims 1, 10, 11, 16, 21, 22, and 24, Hirabayashi teaches a method for detecting the bus width of and then using a peripheral device [figs 1 and 3, element 1, figs 2A and 2B] connected to an electronic device [a PC, column 4 lines 19-30], wherein at least one bus width from a determined set of bus widths is available in the peripheral device [column 4 lines 30-40, 16-bit mode and CardBus mode being a 32-bit mode], comprising:

detecting the bus width or widths available for use in the peripheral device by detecting one or more indirect indicators formed in the peripheral device are used, which one or more indirect indicators is itself or are themselves only indirectly indicative of which one or ones of

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said set of bus widths are available for use in the peripheral device [figs 4A and 4B, column 5 lines 15-28, column 6 lines 43-51. The level of a signal being low or high is used to recognize which operational mode the peripheral card element 1 is using. The signal conveys only a mode through a signal ultimately being a flag or bit which depending on the value, asserted or not, is checked somewhere to determine its meaning being a selection of a bus width], said electronic device then

using said peripheral device according to the detected bus width or widths [abstract – card usable according to a detected mode].

With further regards to claim 11, Okamoto teaches wherein reference data is stored in the electronic device about at least one bus width available in the peripheral device and corresponding to said indirect indicator value [the signal is the reference data].

Allowable Subject Matter

Claim 6 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art alone or in combination fail to teach or fairly suggest said indicator or indicators being indicative of a version of the peripheral device.

Response to Arguments

Applicant's arguments filed on 6/4/07 have been fully considered but they are not persuasive.

With regards to the arguments in the remarks, pages 9-11 directed to the SDMCS reference, the Examiner respectfully disagrees. As admitted by the applicant in page 9-lines 10-11 of the remarks dated 1/19/06, "a selection of a communication protocol is described", that is,

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the selection between one of a SD protocol mode or a SPI protocol mode. The SD protocol being one that supports a 4-bit wide bus, and the SPI protocol being one that supports a 1-bit wide bus for transfers. This selection between the two protocol modes is indirectly indicative of two distinct bus widths since the protocol mode itself is associated with a particular bus width configuration. This is equivalent to an “indirect indication” of a bus width as is claimed by the instant application since by detecting a particular protocol mode, the system can deduce a particular bus width configuration that includes the selection of data lines and other control lines. The selection of a protocol mode ultimately indirectly selects either one of a 1-bit wide bus transfer, or a 4-bit wide bus transfer by deduction from the mode selected. The selection of the SD protocol mode or the SPI protocol mode is indirectly indicative of the bus width as well as other things such as the other pin/pad configuration that is not part of the data bus. Table 1 in page 5 of the SDMCS reference shows the signal assignment that each pin/pad of the peripheral card requires for each separate protocol mode. This signal assignment is also indirectly indicated by the selection of either one of the SD protocol mode or the SPI protocol mode. The selection of the SD protocol mode or the SPI protocol mode indirectly triggers not only the bus width used for communication but also the signal assignment for each pin on the peripheral card. If it was only shown that the selection of one of the SD protocol mode or SPI protocol mode only selected the bus width being used between the peripheral card and the host for communication, then that could be interpreted as being directly indicated, however, showing how the selection of a particular mode changes the bus width **and** the signal/pin assignment of the peripheral card, thus changing other settings other than just the bus width, leads to the conclusion that by selecting the protocol mode, additional information is used (which is stored somewhere in a memory register(s)) thus indirectly indicating the bus width, in addition to other configurations (other configurations such as the pin signal assignment of a protocol mode), for

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setting up of the peripheral card. In addition, the card response to the host command is indicative of a mode, and **not** of a bus width. Once the host receives the mode, it can then configure the pins as data interfaces and control interfaces depending on the received card response. Again, since the response disclosing a mode not only triggers the configuration of pins into data interfaces (bus width) but also control interfaces, the response disclosing only a mode must be indirectly indicative of the bus width.

With regards to Applicant's arguments in the remarks, page 12 directed to the Okamoto reference, the Examiner respectfully disagrees. Okamoto discloses storing protocol modes in an operation mode register, the protocol modes being modes that indirectly indicate a bus width associated with a particular protocol mode, in addition to pin assignment for the card and pin connection type being bidirectional, card to host, asynchronous, and/or synchronous. The different protocol modes themselves (each mode name shown being an arbitrary name), stored in the operation mode register, are associated with different bus width configurations as shown in the table of figure 6. Because the configuration of each mode in table 6 not only does the bus width selection but also the pin assignment and pin connection type based on the reading of a register that only discloses a mode, the mode indirectly indicates bus widths as well as additional configuration, therefore anticipating the presently claimed invention.

With regards to Applicant's arguments in the remarks, page 12 directed to the Hirabayashi reference, the Examiner respectfully disagrees. Hirabayashi discloses the usage of signals to detect and select a mode. The detection and selection of a mode indirectly indicates the bus width to configure. The "16-bit mode" signal indirectly indicates to configure the bus to a 16-bit wide bus, and the "CardBus" signal indirectly indicates to configure the bus to a 32-bit wide bus. It is clearly stated in column 5, lines 27-28 that detection of the operational **mode** takes place (which leads to the bus width configuration). It is not directed to the direct detection

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of the bus width itself. The mode signals are used to deduce the bus width configuration associated with the mode selected, therefore anticipating the presently claimed invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Martinez whose telephone number is (571) 272-4152. The examiner can normally be reached on 8:30-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alford Kindred can be reached on 571-272-4037. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DEM

David E. Martinez
8/20/2007